

P. TYPHOON KIT (021200Z-130000Z OCTOBER 1960)

The birth of KIT as T.D. 20 was not a surprising event. The circulation had gradually increased in size over a period of several days to an immense cyclone, whose E-W length was more than 1500 mi, extending from the Philippines to E of Guam, and whose N-S length was more than 600 mi. The surface winds were no more than 25 kts, and the central pressure was no lower than 1001 mb at 021200Z, the time of the first warning. The cyclone grew smaller in area and more intense as it developed into a typhoon. Storm intensity winds were reached by 031200Z and KIT achieved typhoon strength by 041800Z. From the first warning KIT followed a course to the W moving 7 to 12 kts, roughly along 13N, passed between Samar and Catanduanes Islands and moved onto Legaspi Island, 200 mi SE of Manila at 060900Z. It became somewhat weaker while over land, but accelerated slightly. The typhoon entered the South China Sea at 071000Z and commenced intensifying again as it moved NW, finally achieving a speed of 12 kts. KIT was 200 mi SSW of Hong Kong at 101200Z, at which time it began turning W again. The wind speeds about KIT steadily decreased from 90 kts at 101200Z to 60 kts at 111200Z, the same time that it passed the coast line of Hainan Island. The last warning was issued on T.S. KIT at 130000Z, 140 mi SSE of Hanoi, North Vietnam.

Typhoon KIT followed the track of climatology very well, and is one of the few of the season that did. Warnings were issued for 10 and one half days over a distance of 1900 mi. The cyclone traveled at the average rate of 7 to 8 kts or 181 mi per day. Circulationwise, Typhoon KIT appears to have extended through the 300 mb level, but did not extend to the 200 mb level as a closed circulation.

Warnings were also issued on Typhoon LOLA during the warning life of KIT.

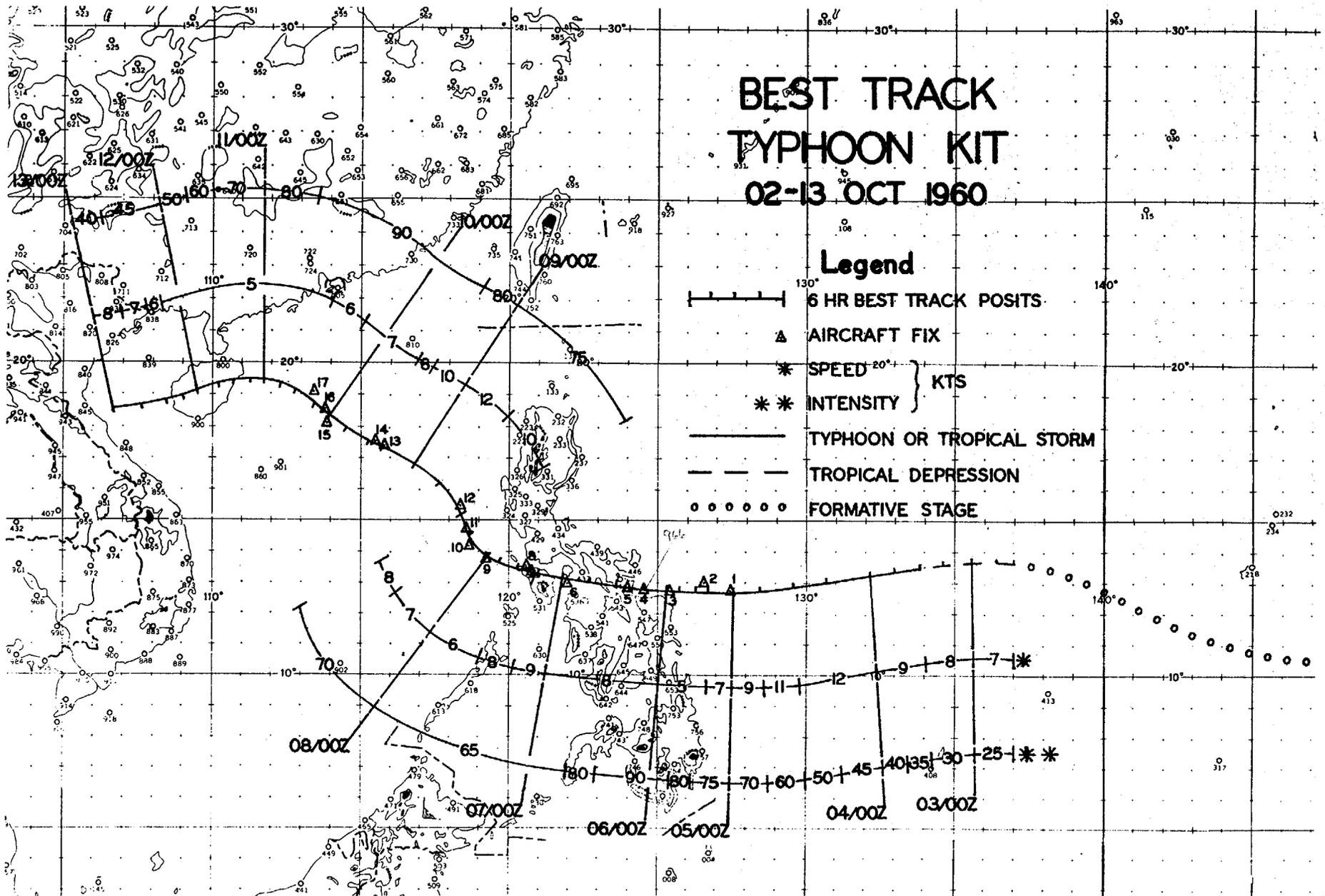
There were no unusual features associated with Typhoon KIT.

BEST TRACK TYPHOON KIT 02-13 OCT 1960

Legend

-  6 HR BEST TRACK POSITS
-  AIRCRAFT FIX
-  SPEED } KTS
-  INTENSITY }
-  TYPHOON OR TROPICAL STORM
-  TROPICAL DEPRESSION
-  FORMATIVE STAGE

135



RECONNAISSANCE AIRCRAFT FIXES - TYPHOON KIT

FLX NO.	TIME	LAT.	LONG.	UNIT METHOD & ACCY	MIN SLP MBS	MAX SFC WND	MIN 700MB HGT	MAX 700MB WND	700MB TT/Td (°C)	EYE CHARACTERISTICS
1	042316Z	12.7N	127.5E	56-P-05	980	75	9910 ⁹⁹²	60	15/09	35 MI DIA
2	050925Z	13.0N	126.6E	56-P-05	976	75	9940 ⁹⁹³	58	14/08	CIRC DIA 08 MI
3	060030Z	12.8N	125.3E	56-P-02	972	80	9200 ⁹⁶⁸	70	15/--	CIRC DIA 15 MI
4	060400Z	12.8N	124.6E	56-P-02	966	100	- - -	*60	*-3/-6	CIRC DIA 18 MI
5	060820Z	12.9N	124.0E	56-P-02	968	- -	- - -	*72	*-2/-2	POORLY DEFINED DIA 12 MI
6	062250Z	13.0N	122.0E	56-P-02	- -	- -	- - -	*80	*-2/-2	CIRC DIA 40 MI
7	070730Z	13.3N	120.8E	56-P-00	- -	- -	- - -	*55	*-4/--	CIRC
8	070920Z	13.4N	120.6E	56-P-00	- -	45	- - -	*50	*-2/--	CIRC WALL CLDS DIFFUSE
9	072255Z	13.8N	119.2E	56-P-05	992	35	9930	30	07/05	NO DEFINED EYE
10	080345Z	14.1N	118.7E	56-P-05	996	- -	9910 ⁹⁹²	45	07/--	POORLY DEFINED EYE
11	080830Z	14.8N	118.6E	56-P-01	987	75	9980 ⁹⁹⁵	50	10/08	CIRC DIA 40 MI OPEN N
12	081500Z	15.4N	118.3E	VP40-R--	- -	- -	- - -	- -	- - -	- - - - - - - - - - - - - - - -
13	090440Z	17.4N	115.9E	56-P-05	976	85	9630 ⁹⁸²	60	18/--	CIRC DIA 40 MI OPEN E-S
14	090900Z	17.5N	115.5E	56-P-05	978	75	9480 ⁹⁷⁷	65	16/--	CIRC DIA 40 MI
15	092333Z	18.1N	113.9E	56-P-05	975	90	9380 ⁹⁷⁴	85	15/07	OPEN ALL QUADS
16	100435Z	18.6N	113.9E	56-P-15	978	65	9520	70	14/10	CIRC DIA 60 MI
17	100800Z	19.1N	113.4E	56-P-10	970	80	9470 ⁹⁷⁶	87	14/08	CIRC DIA 60 MI WALL CLDS ALL QUADS

* MAX 500 MB WND TEMP AND DEW PT

TYPHOON KIT 02-13 OCTOBER 1960
POSITION AND FORECAST VERIFICATION DATA

DTG	STORM POSITION		24 HR. ERROR		48 HR. ERROR	
	LAT.	LONG.	DEG.	DISTANCE	DEG.	DISTANCE
021200Z	13.7N	137.0E	-	-	-	-
021800Z	13.8N	136.3E	-	-	-	-
030000Z	13.7N	135.6E	-	-	-	-
030600Z	13.6N	134.7E	-	-	-	-
031200Z	13.5N	133.9E	-	-	-	-
031800Z	13.3N	133.0E	-	-	-	-
040000Z	13.2N	132.1E	-	-	-	-
040600Z	13.1N	130.8E	-	-	-	-
041200Z	12.9N	129.6E	-	-	-	-
041800Z	12.8N	128.5E	-	-	-	-
050000Z	12.8N	127.6E	-	-	-	-
050600Z	12.8N	126.8E	102	-152	-	-
051200Z	12.8N	126.3E	274	-154	-	-
051800Z	12.8N	125.8E	285	-155	-	-
060000Z	12.8N	125.3E	264	-70	-	-
060600Z	12.8N	124.5E	263	-73	087	-147
061200Z	12.9N	123.7E	046	-29	270	-142
061800Z	13.0N	122.8E	321	-53	285	-120
070000Z	13.1N	121.9E	058	-93	251	-69
070600Z	13.2N	121.0E	100	-65	246	-71
071200Z	13.3N	120.2E	127	-38	079	-88
071800Z	13.6N	119.7E	209	-40	278	-91
080000Z	13.9N	119.2E	219	-76	114	-136
080600Z	14.5N	118.7E	209	-112	151	-110
081200Z	15.2N	118.4E	213	-149	190	-150
081800Z	16.1N	117.8E	213	-184	212	-248
090000Z	16.8N	116.9E	201	-173	201	-284
090600Z	17.3N	115.9E	187	-137	195	-309
091200Z	17.6N	115.2E	094	-98	196	-310
091800Z	18.0N	114.6E	102	-142	205	-297
100000Z	18.4N	114.0E	166	-78	199	-271
100600Z	18.8N	113.4E	273	-99	196	-204
101200Z	19.1N	112.9E	272	-137	078	-247
101800Z	19.3N	112.3E	286	-125	095	-148
110000Z	19.4N	111.8E	225	-60	188	-150

TYPHOON KIT 02-13 OCTOBER 1960
 POSITION AND FORECAST VERIFICATION DATA (CONT'D)

DTG	STORM POSITION		24 HR. ERROR		48 HR. ERROR	
	LAT.	LONG.	DEG.	DISTANCE	DEG.	DISTANCE
110600Z	19.4N	111.2E	283	29	276	204
111200Z	19.4N	110.6E	360	98	274	214
111800Z	19.3N	110.1E	015	113	289	176
120000Z	19.1N	109.5E	023	116	258	36
120600Z	19.0N	109.0E	041	173	331	83
121200Z	18.9N	108.4E	035	100	003	117
121800Z	18.8N	107.6E	025	65	202	245
130000Z	18.7N	106.7E	049	64	200	195
AVERAGE 24 HOUR ERROR			102 MI			
AVERAGE 48 HOUR ERROR			174 MI			

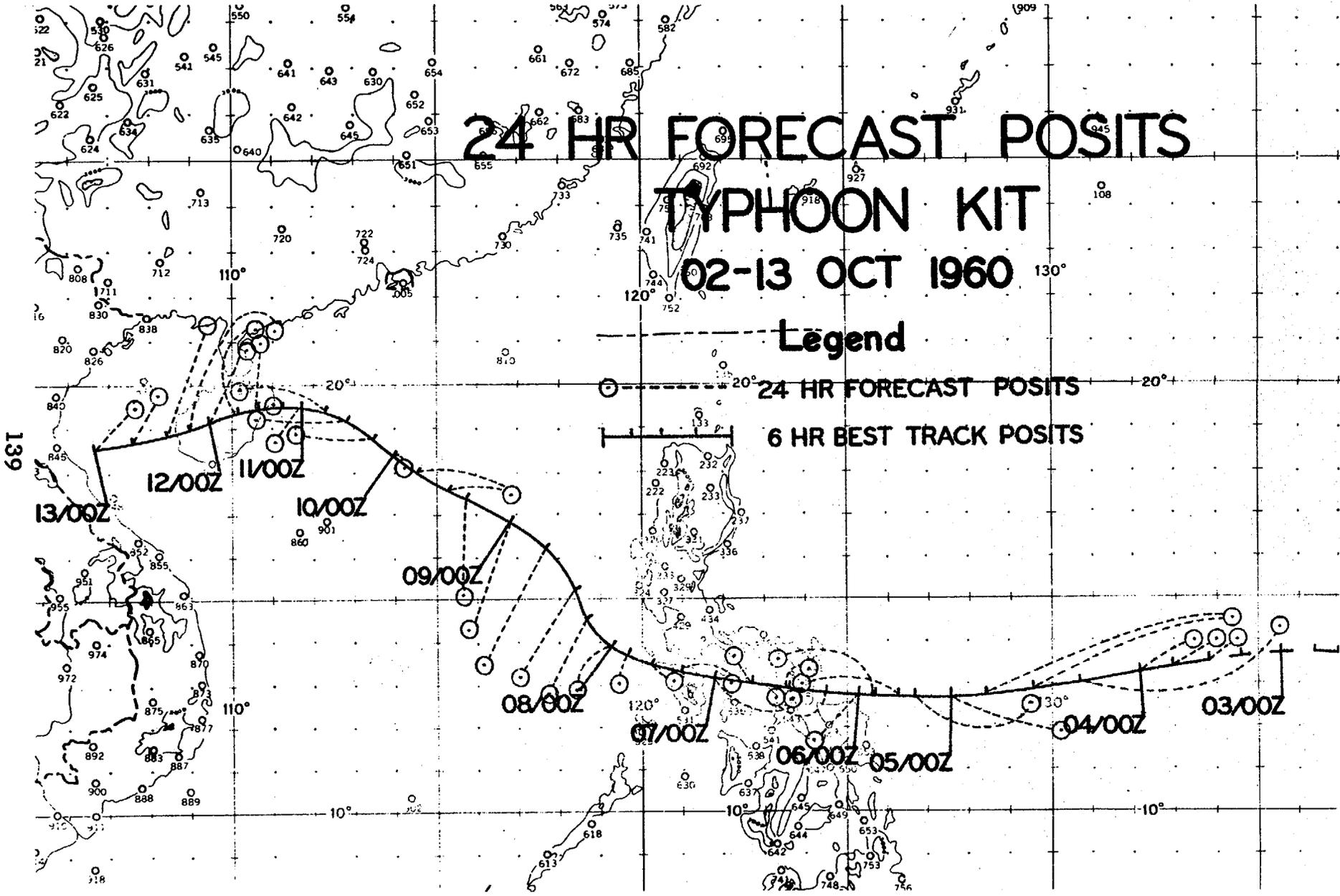
24 HR FORECAST POSITS

TYPHOON KIT

02-13 OCT 1960

Legend

- 24 HR FORECAST POSITS
- 6 HR BEST TRACK POSITS



139

13/00Z

12/00Z

10/00Z

09/00Z

08/00Z

07/00Z

06/00Z

05/00Z

04/00Z

03/00Z